



Inventor: LEE, JAL.
Docket No.: 1111111111USDI
Title: METHODS OF USING VEGF-RELATED PROTEIN
Serial No.: 09/313,299
Sheet 1 of 10

6576608

1 CGCGGGGTGT TCTGGTGTCC CCCGCCCGC CTCTCCAAAA AGCTACACCG ACGCGGACCG
GCGCCCCACA AGACCACAGG GGGCGGGGCG GAGAGGTTTT TCGATGTGGC TGCGCCTGGC

sst I

61 CGGGCGCGTC CTCCCTCGCC CTCGCTTCAC CTCGCGGGCT CCGAATGCAG GGAGCTCGGA
GCCGCCGCAAG GAGGGAGCGG GAGCGAAGTG GAGCGCCCGA GGCTTACGCC CCTCGAGCCT

121 TGTCCGGTTT CCTGTGAGGC TTTTACCTGA CACCCGCCGC CTTTCCCCGG CACTGGCTGG
ACAGGCCAAA GGACACTCCG AAAATGGACT GTGGGGCGGCG GAAAGGGGCC GTGACCGACC

kasi

181 GAGGGCGCCC TGCAAAGTTG GGAACGCGGA GCCCCGGACC CGCTCCCGCC GCCTCCGGCT
CTCCCCGGGG ACGTTTCAAC CCTTGCGCCT CGGGGCCCTGG GCGAGGGCGG CGGAGGCCGA

241 CGCCCAGGGG GGGTCGCCGG GAGGAGCCCC GGGGAGAGGG ACCAGGAGGG GCCCGCGGCC
GCGGGTCCCC CCCAGCGGCC CTCCCTCGGGC CCCCTCTCCC TGGTCCTCCC CGGGCGCCGG

kasI

age I

301 TCGCAGGGGC GCCCGCGCCC CCACCCCTGC CCCC GCCAGC GGACCGGTCC CCCACCCCCG
AGCGTCCCCG CGGGCGCGGG GGTGGGGACG GGGGCGGTGCG CCTGCCAGG GGGTGGGGGC

361 GTCCTTCCAC CATGCACTTG CTGGGCTTCT TCTCTGTGGC GTGTTCTCTG CTCGCCGCTG
CAGGAAGGTG GTACGTGAAC GACCCGAAGA AGAGACACCG CACAAGAGAC GAGCGGCGAC

-20 M H L L G F F S V A C S L L A A A

M H L L G F F S V A C S L L A A A

kasi

421 CGCTGCTCCC GGGTCCTCGC GAGGCGCCCG CCGCCGCCGC CGCCTTCGAG TCCGGACTCG
GCGACGAGGG CCCAGGAGCG CTCCGCGGGC GGCGGGCGGCG GCGGAAGCTC AGGCCTGAGC

-3 L L P G P R E A P A A A A A F E S G L D

481 ACCTCTCGGA CGCGGAGCCC GACGCGGGCG AGGCCACGGC TTATGCAAGC AAAGATCTGG
TGGAGAGCCT GCGCCTCGGG CTGCGCCCGC TCCGGTGCCG AATACTGTTCG TTTCTAGACC

18 L S D A E P D A G E A T A Y A S K D L E

541 AGGAGCAGTT ACGGTCTGTG TCCAGTGTAG ATGAACATCA GACTGTACTC TACCCAGAAT
TCCTCGTCAA TGCCAGACAC AGGTACATC TACTTGAGTA CTGACATGAG ATGGGTCTTA

38 E O L R S V S S V D E L M T V L Y P E Y

FIG. 1A



Inventor: FEE ET AL.
Docket No.: 1669.111USD1
Title: METHODS OF USING VEGF-RELATED PROTEIN
Serial No.: 09/313,299
Sheet 2 of 10

601 ATTGGAAAAT GTACAAGTGT CAGCTAAGGA AAGGAGGCTG GCAACATAAC AGAGAACAGG
TAACCTTTA CATGTTACA GTCGATTCTT TTCCTCCGAC CGTTGTATTG TCTCTTGCC
58 W K M Y K C Q L R K G G W Q H N R E Q A

661 CCAACCTCAA CTCAAGGACA GAAGAGACTA TAAAATTTGC TGCAGCACAT TATAATACAG
GGTTGGAGTT GAGTTCTGT CTTCTCTGAT ATTTAAACG ACGTCGTGTA ATATTATGTC
78 N L N S R T E E T I K F A A A H Y N T E

sphI

721 AGATCTTGAA AAGTATTGAT AATGAGTGGA GAAAGACTCA ATGCATGCCA CGGGAGGTGT
TCTAGAACTT TTCATAACTA TTACTCACCT CTTCTGAGT TACGTACGGT GCCCTCCACA
98 I L K S I D N E W R K T Q C M P R E V C

781 GTATAGATGT GGGGAAGGAG TTTGGAGTCG CGACAAACAC CTTCTTTAAA CCTCCATGTG
CATATCTACA CCCCTTCCTC AAACCTCAGC GCTGTTGTG GAAGAAATTG GGAGGTACAC
118 I D V G K E F G V A T N T F F K P P C V

accI

841 TGTCCGTCTA CAGATGTGGG GGTTGCTGCA ATAGTGAGGG GCTGCAGTGC ATGAACACCA
ACAGGCAGAT GTCTACACCC CCAACGACGT TATCACTCCC CGACGTACAG TACTTGTGGT
138 S V Y R C G G C C N S E G L Q C M N T S

901 GCACGAGCTA CCTCAGCAAG ACGTTATTTG AAATTACAGT GCCTCTCTCT CAAGGCCCCA
CGTGCTCGAT GGAGTCGTT TGCAATAAAC TTTAATGTCA CGGAGAGAGA GTTCCGGGGT
158 T S Y L S K T L F E I T V P L S Q G P K

961 AACCAAGTAAC AATCAGTTT GCCAATCACA CTTCCTGCCG ATGCATGTCT AAACTGGATG
TTGGTCATTG TTAGTCAAAA CGGTTAGTGT GAAGGACGGC TACGTACAGA TTTGACCTAC
178 P V T I S F A N H T S C R C M S K L D V

1021 TTTACAGACA AGTTCATTCC ATTATTAGAC GTTCCCTGCC AGCAACACTA CCACAGTGT
AAATGTCTGT TCAAGTAAGG TAATAATCTG CAAGGGACGG TCGTTGTGAT GGTGTCACAG
198 Y R Q V H S I I R R S L P A T L P Q C Q

1081 AGGCAGCGAA CAAGACCTGC CCCACCAATT ACATGTGGAA TAATCACATC TGCAGATGCC
TCCGTCGCTT GTTCTGGACG GGGTGGTTAA TGTACACCTT ATTAGTGTAG ACGTCTACGG
218 A A N K T C P T N Y M W N N H I C R C L

FIG. 1B



Inventor: LEVENT AL.
Docket No. 09/111USD1
Title: METHODS OF USING VEGF-RELATED PROTEIN
Serial No.: 09/313,299
Sheet 3 of 10

1141 TGGCTCAGGA AGATTTATG TTTCTCGG ATGCTGGAGA TGACTCAACA GATGGATTCC
ACCGAGTCCT TCTAAAATAC AAAAGGAGCC TACGACCTCT ACTGAGTTGT CTACCTAAGG
238 A Q E D F M F S S D A G D D S T D G F H

1201 ATGACATCTG TGGACCAAAC AAGGAGCTGG ATGAAGAGAC CTGTCAGTGT GTCTGCAGAG
TACTGTAGAC ACCTGGTTTG TTCCTCGACC TACTTCTCTG GACAGTCACA CAGACGTCTC
258 D I C G P N K E L D E E T C Q C V C R A

1261 CGGGGCTTCG GCCTGCCAGC TGTGGACCCC ACAAAAGAACT AGACAGAAAC TCATGCCAGT
GCCCGAAGC CGGACGGTCG ACACCTGGGG TGTTTCTTGA TCTGTCTTG AGTACGGTCA
278 G L R P A S C G P H K E L D R N S C Q C

1321 GTGTCTGTAA AAACAAACTC TTCCCCAGCC AATGTGGGGC CAACCGAGAA TTTGATGAAA
CACAGACATT TTTGTTGAG AAGGGGTCGG TTACACCCCG GTTGGCTCTT AAACTACTTT
298 V C K N K L F P S Q C G A N R E F D E N

1381 ACACATGCCA GTGTGTATGT AAAAGAACCT GCCCCAGAAA TCAACCCCTA AATCCTGGAA
TGTGTACGGT CACACATACA TTTTCTTGA CGGGGTCTTT AGTTGGGGAT TTAGGACCTT
318 T C Q C V C K R T C P R N Q P L N P G K

1441 AATGTGCCTG TGAATGTACA GAAAGTCCAC AGAAATGCTT GTTAAAAGGA AAGAAGTTCC
TTACACGGAC ACTTACATGT CTTTCAGGTG TCTTTACGAA CAATTTCTT TTCTTCAGG
338 C A C E C T E S P Q K C L L K G K K F H

eaeI

1501 ACCACCAAAC ATGCAGCTGT TACAGACGGC CATGTACGAA CCGCCAGAAG GCTTGTGAGC
TGGTGGTTTG TACGTCGACA ATGTCGCG GTACATGCTT GGCGGTCTTC CGAACACTCG
358 H Q T C S C Y R R P C T N R Q K A C E P

1561 CAGGATTTTC ATATAGTGA GAAGTGTGTC GTTGTGCCC TTCATATTGG AAAAGACCAC
GTCCTAAAAG TATATCACTT CTTCACACAG CAACACAGGG AAGTATAACC TTTCTGGTG
378 G F S Y S E E V C R C V P S Y W K R P Q

clai

1621 AAATGAGCTA AGATTGTA CTTTCCAGT TCATCGATTT TCTATTATGG AAAACTGTGT
TTTACTCGAT TCTAACATGA CAAAAGGTCA AGTAGCTAAA AGATAATACC TTTTGACACA
398 M S O

1681 TGCCACAGTA GAACTGTCTG TGAACAGAGA GACCCTTGTG GGTCCATGCT AACAAAGACA
ACGGTGTCA CTTGACAGAC ACTTGTCTCT CTGGGAACAC CCAGGTACGA TTGTTCTGT

FIG. 1C



Inventor: LEE ET AL.
Docket No.: 09/313,299.111USD1
Title: METABOLISM OF USING VEGF-RELATED PROTEIN
Serial No.: 09/313,299
Sheet 4 of 10

sstI

1741 AAAGTCTGTC TTTCCTGAAC CATGTGGATA ACTTTACAGA AATGGACTGG AGCTCATCTG
TTTCAGACAG AAAGGACTTG GTACACCTAT TGAAATGTCT TTACCTGACC TCGAGTAGAC

1801 CAAAAGGCCT CTTGTAAAGA CTGGTTTCT GCCAATGACC AACAGCCAA GATTTCCCTC
GTTTCCGGA GAACATTCT GACCAAAAGA CGGTTACTGG TTTGTCGGTT CTAAAAGGAG

1861 TTGTGATTTC TTTAAAAGAA TGACTATATA ATTTATTTCC ACTAAAAATA TTGTTCTGC
AACACTAAAG AAATTTCTT ACTGATATAT TAAATAAAGG TGATTTTAT AACAAAGACG

1921 ATTCACTTTT ATAGCAACAA CAATTGGTAA AACTCACTGT GATCAATATT TTTATATCAT
TAAGTAAAAA TATCGTTGTT GTTAACCATT TTGAGTGACA CTAGTTATAA AAATATAGTA

1981 GCAAAATATG TTTAAAATAA AATGAAAATT GTATTAAAAA AAAAAAAAAA A
CGTTTATAC AAATTTATT TTACTTTAA CATAATT TTTTTTTTT T

FIG. 1D



Inventor: JEE ET AL.
Docket No.: 669.111USDI
Title: METHODS OF USING VEGF-RELATED PROTEIN
Serial No.: 09/313,299
Sheet 5 of 10

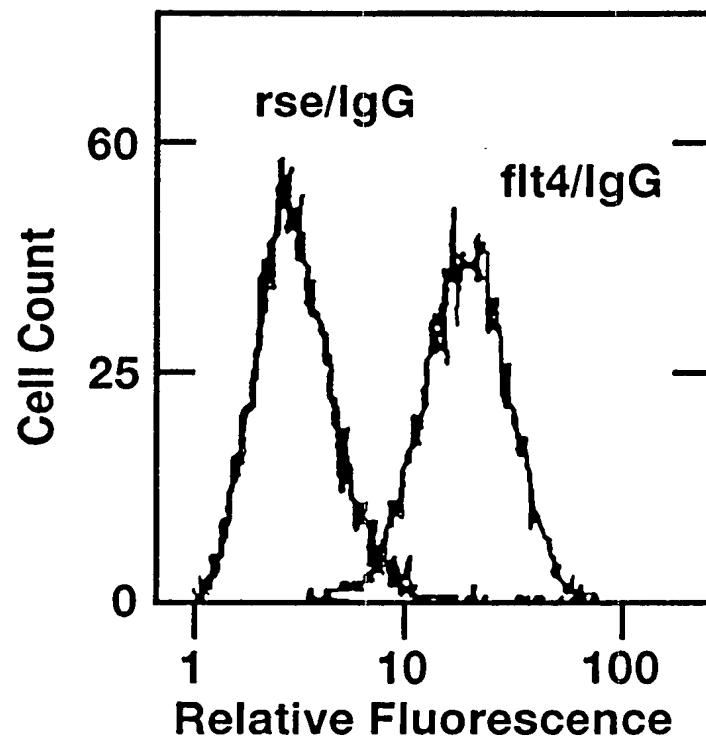


FIG. 2

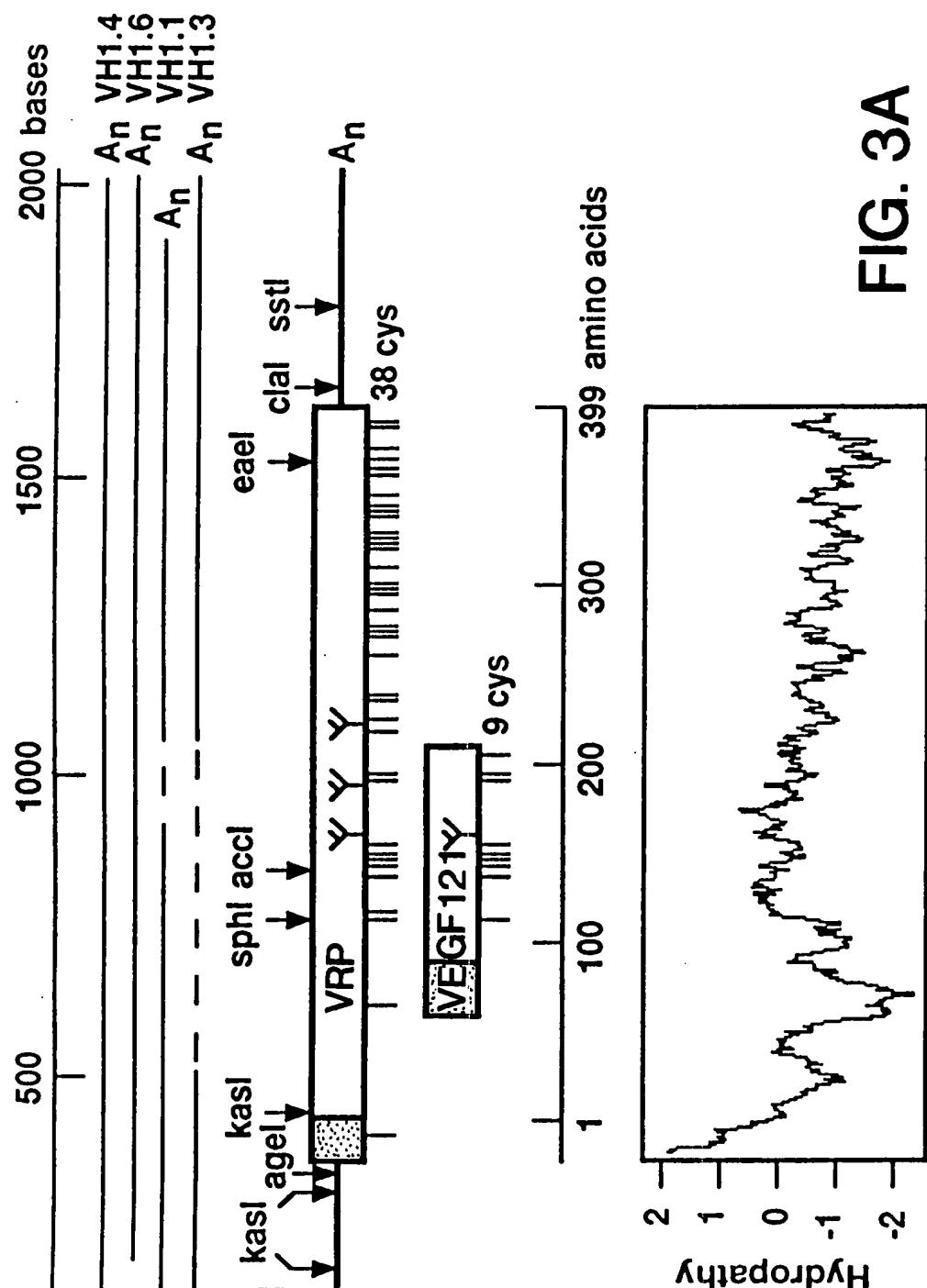


FIG. 3A



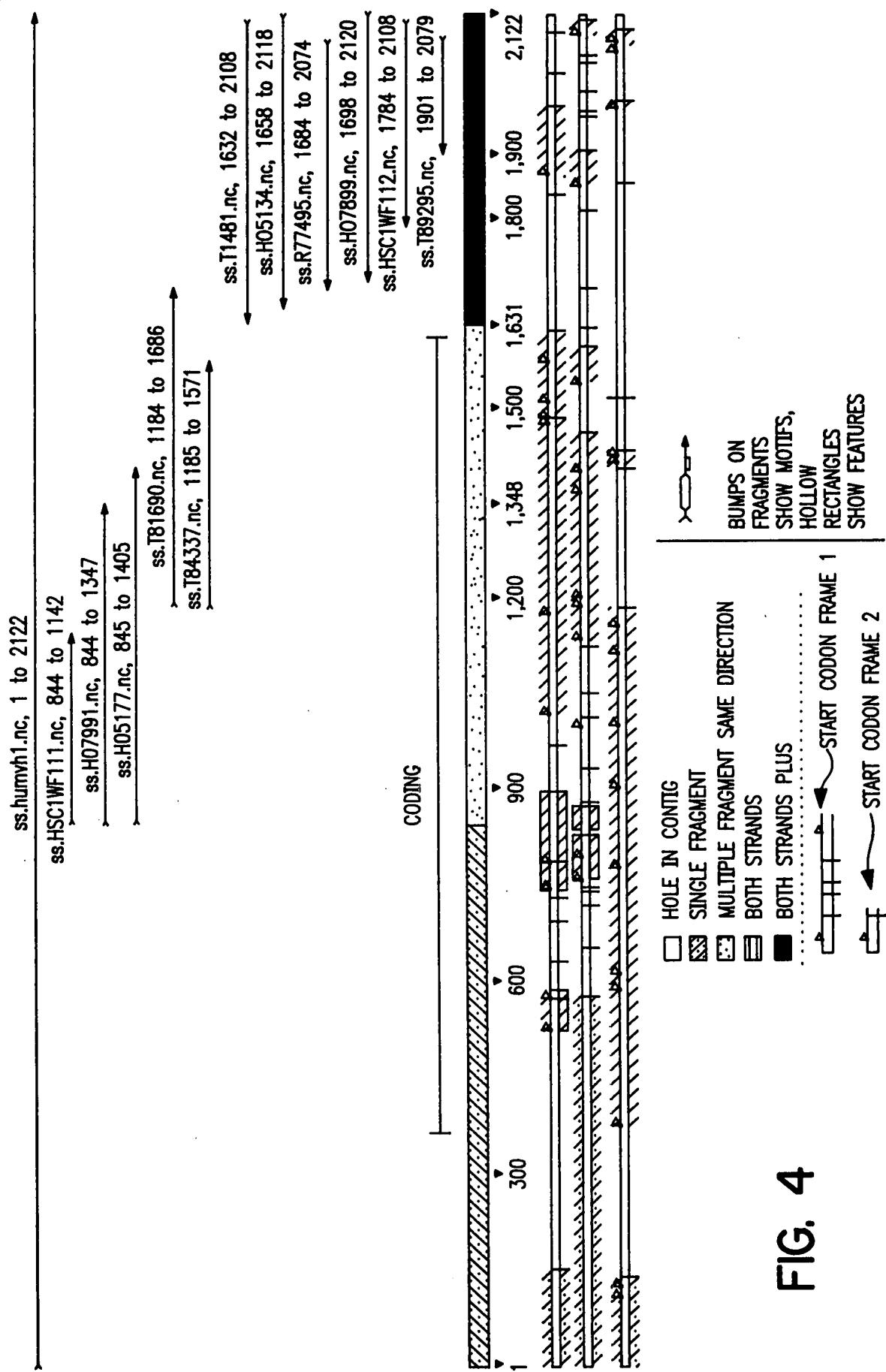
Inventor: LIU ET AL.
Docket No.: 69.111USDI
Title: METHODS OF USING VEGF-RELATED PROTEIN
Serial No.: 09/313,299
Sheet 7 of 10

VRP	-20	M H L L G F F S V A C S L L A A A L L P G P R E A P A A A A F E S G L D L S D A E P D A G E A T A
VRP	31	Y A S K D L E E Q L R S V S S V D E L M T V L Y P E Y W K M Y K C Q R K G G W Q H N R E Q A N L N
VEGF121	-26	- - - - -
PIGF131	-18	- - - - -
VRP	81	S R T E E T I K F A A A H Y N T E I L K S I D N E W R K T Q C M P R E V C I D Y G K E F G V A T T
VEGF121	-5	K W S Q A A P M A E G G G Q N H H E V V K F M D V Y Q R S Y C H P I E T V D I F Q E Y P D E I E Y
PIGF131	4	V P P Q Q W A L S A G N G S S E V E V V P E Q E V W G R S Y C R A L E R L V D V V S E Y P S E V E H
VRP	131	F F K P P C V S V Y R C G G C C N S E G L Q C M N T S T S Y L S K T F E I T V P L S Q G P K P V T
VEGF121	46	I F K P S C V P L M R C G G C C N D E G L E C V P T E E S N I T M Q I M R I K P - - H Q G Q H I G E
PIGF131	54	M F S P S C V S L I R C T G C C G D E N I H C V P V E T A N V I M Q L I K I R S - - G D R P S Y V E
VRP	181	I S F A N H T S C R C M S K L D V Y R Q V H S I I R R S L P A T L P Q C Q A A N K T C P T N Y M W N
VEGF121	94	M S F L Q H N K C E C R P K K D A R Q E K C D K P R R
PIGF131	102	L T F S Q H V R C E C R P L R E K M K P E R C G D A V P R R
VRP	231	N H I C R C L A Q E D F M F S S D A G D D S T D G F H D I C G P N K E L D E E T C Q A C V C R A G L R
VRP	281	P A S C G P H K E L D R N S C Q C V C K N K L F P S Q C G A N R E F D E N T C Q C V C K R T C P R N
VRP	331	Q P L N P G K C A C E C T E S P Q K C L L K G K K F H H Q T C S C Y R R P C T N R Q K A C E P G F S
VRP	381	Y S E E V C R C V P S Y W K R P Q M S

FIG. 3B



Inventor: LEE ET AL.
Docket No.: 1669.111USD1
Title: METHODS OF USING VEGF-RELATED PROTEIN
Serial No.: 09/313,299
Sheet 8 of 10





Inventor: EEE ET AL
Docket No.: 11-XXXX-US1
Title: METHODS OF USING VEGF-RELATED PROTEIN
Serial No.: 09/313,299
Sheet 9 of 10

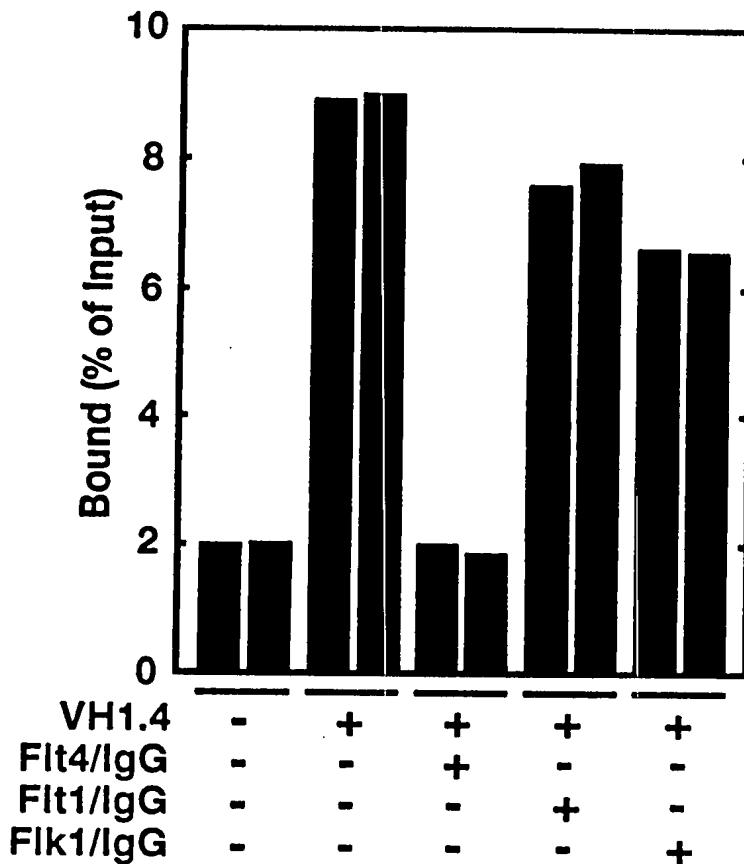


FIG. 5A

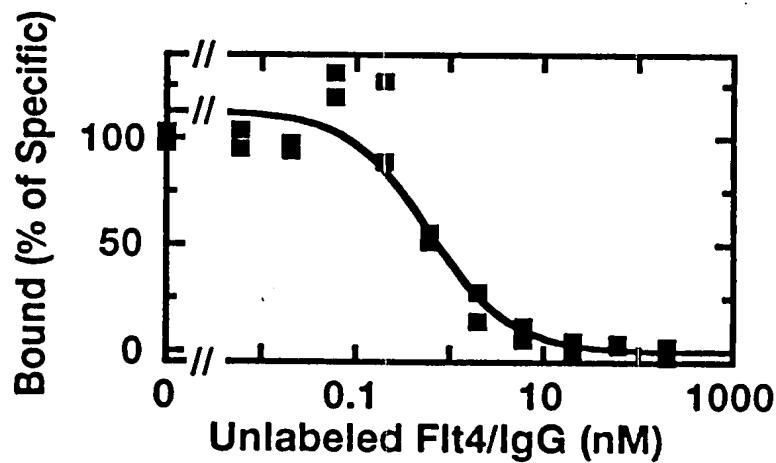


FIG. 5B



Inventor: LEE ET AL
Docket No.: 111111111111 USD1
Title: METHOD OF TREATMENT USING VEGF-RELATED PROTEIN
Serial No.: 09/313,299
Sheet 10 of 10

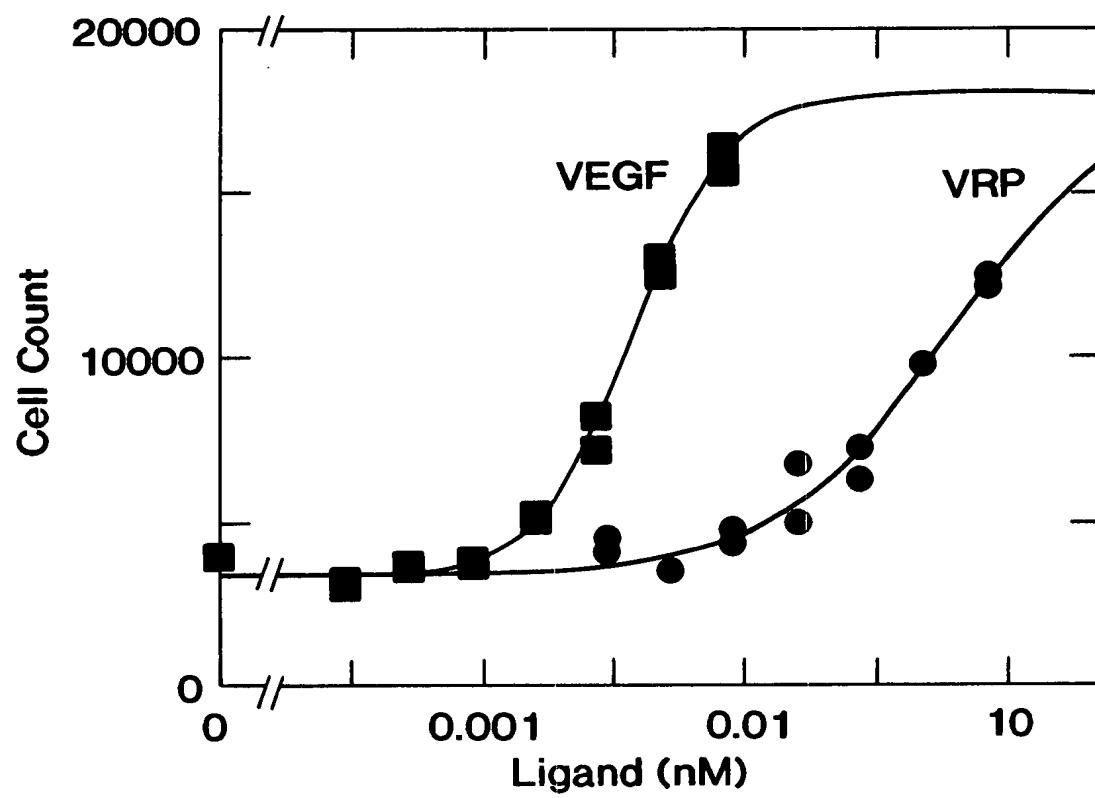


FIG. 6